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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/736,975	12/14/2000	Megumi Yamada	GRA2.PAU.02	8296	
75	90 03/06/2002				
Myers Dawes & Andras LLP			EXAMINER		
Suite 1150 19900 Mac Arthur Blvd.			BLAU, STEPHEN LUTHER		
Irvine, CA 926	012		ART UNIT PAPER NUMBER		
;			3711		
			DATE MAILED: 03/06/2002	DATE MAILED: 03/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u>'</u>					
Office Action Summer		Application No.	Applicant(s)				
		09/736,975	YAMADA, MEGUMI				
	Office Action Summary	Examiner	Art Unit				
<u>'</u>	T	St phen L. Blau	3711				
Period fo	• •						
THE I - Exter after - If the - If NO - Failur - Any n	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Isions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 vill apply and will expire SIX (6) MONTHS cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35.U.S.C. 8.133)				
1)🖂	Responsive to communication(s) filed on 13 F	ebruary 2002 .					
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.							
4a) Of the above claim(s) <u>15 and 16</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) 🗌	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or papers	election requirement.					
9) 🔲 7	he specification is objected to by the Examiner	:					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority u	nder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
:	2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	cknowledgment is made of a claim for domestic	•					
a)	☐ The translation of the foreign language proveknowledgment is made of a claim for domestic	visional application has been i	received.				
Attachment(,,					
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)				
S. Patent and Trace PTO-326 (Rev.		on Summary	Part of Paper No. 7				

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DETAILED ACTION

Election/Restrictions

Claims 15-16 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 6.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 is indefinite in that the word "wrapper" does not make sense.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United
- invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 5. Claims 1, 6-9, 11-12 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Preece.

Preece discloses a layer of metal containing prepreg wrapped at tip of a shaft (Col. 3, Lns. 39-47, Ref. No. 10), a layer of non-metal fiber prepreg wrapped adjacent to a layer of metal-containing prepreg throughout a length of a shaft (Ref. No. 11, Col. 3, Lns. 29-38), a layer of metal-containing prepreg being an inner most layer (Claim 1), a layer of non-metal fiber prepreg being wrapped over the inner most layer (Figs. 1A-1B), a metal having a specific mass greater than 7 g/cm^3 in the form of copper (Col. 3, Lns. 39-45), a metal power (Col. 3, Lns. 39-47) dispersed (Col. 4, Lns. 60-67) in a synthetic resin, and an epoxy resin (Col. 4, Lns. 33-40), and an inner-most layer of metal-containing prepreg is located along a length of a shaft between at tip end of the shaft and 40 % of an overall length of a shaft in the form of about 25-30 % of the defined length of the shaft (Fig. 1A).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Preece.

Preece discloses multiple layers used in forming a shaft (Ref. Nos. 18, 20, and 22) and conventional means of weighting pre-preg uses tungsten powder (Col. 1, Lns. 49-60). An artisan skilled in the art of forming shafts with sufficient weighting and strength would have selected a suitable number of metal-containing prepreg layers in which a second layer is included.

Preece lacks a second layer of metal-containing prepreg and a Tungsten powder. It would have been obvious to modify the shaft of Preece to have a second layer of metal-containing prepreg in order to have additional strength and weight at a tip end of a shaft. It would have been obvious to modify the shaft of Preece to have a metal powder being tungsten to add more weight to a tip end of the shaft for the same volume of material added.

8. Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Preece in view of Takemura.

Preece lacks a shaft having a mass of about 80-130 grams. Takemura discloses a composite shaft having a weight of 80-85 grams (Col. 9, Lns. 10-17). In view of the patent of Takemura it would have been obvious to modify the shaft of Preece to have a shaft weight of 80-85 grams in order to have a swing weight for a specific player's

strength which will minimize fatigue while playing a round of golf yet maximize the amount of energy transferred to a ball at impact.

9. Claims 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Preece in view of Lezatte.

Preece lacks a center of mass located 45-51 % when measured from a tip end. Lezatte discloses a center of mass located 45-51% when measured from a tip end (Col. 3, Lns. 30-38). In view of the patent of Lezatte it would have been obvious to modify the shaft of Preece to have a center of mass located 45-51% when measure from a tip end in order to have a shaft with a specific swing weight which fits the strength of a golfer.

10. Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Preece in view of Beach.

Preece lacks an EI value of about 3 to 4.5 kgfm^2 at 200 mm from a tip. Beach discloses an EI value at a tip portion of 4.59 kgfm² (Claim 3). Clearly an artisan skilled in the art of selecting a suitable flexibility and inertia for a specific swing of a golfer to maximize flying distance would have selected a suitable EI value in which 4.5 kgfm^2 at 200 mm from a tip is included. In view of the patent of Beach it would have been obvious to modify the shaft of Preece to have an EI value of about 4.5 kgfm^2 at 200 mm from a tip end in order to utilize the flexibility of a tip end of a shaft to maximize the velocity of a tip end of a shaft at impact for a specific strength golfer.

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11. Claims 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Preece in view of Hsu.

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Preece lacks the layer of metal-containing prepreg being a metal fiber. Hsu discloses using metal filaments to weight a tip end of a shaft (Col. 1, Lns. 56-66). In view of the patent of Hsu it would have been obvious to modify the shaft of Preece to have fibers instead of powders to add not only weight but also strength to a tip end of a shaft.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Blau whose telephone number is (703) 308-2712. The examiner is available Monday through Friday from 8 a.m. to 4:30 p.m.. If the examiner is unavailable you can contact his supervisor Paul Sewell whose telephone number is (703) 308-2126. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0858.

Slb 2 March 2002

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Attachment for PTO-948 (Rev. 03/01, or carlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Dransperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a)

Failure to take corrective action within the set period will result in ABANDONMENT of the application

